

The World Vegetable Center field report

Inviolate Dominick1, Hassan Mndiga 1

|  |  |
| --- | --- |
|  | |
| Author affiliations | 1World Vegetable Center |
| Published by | International Livestock Research Institute and/or International Institute of Tropical Agriculture |
| August 2020 | |

[www.africa-rising.net](http://www.africa-rising.net)

The [Africa Research In Sustainable Intensification for the Next Generation](http://africa-rising.net/) (Africa RISING) program comprises three research-in-development projects supported by the United States Agency for International Development (USAID) as part of the U.S. Government’s Feed the Future initiative.

Through action research and development partnerships, Africa RISING is creating opportunities for smallholder farm households to move out of hunger and poverty through sustainably intensified farming systems that improve food, nutrition, and income security, particularly for women and children, and conserve or enhance the natural resource base.

The three regional projects are led by the International Institute of Tropical Agriculture (in West Africa and East and Southern Africa) and the International Livestock Research Institute (in the Ethiopian Highlands). The International Food Policy Research Institute leads the program’s monitoring, evaluation and impact assessment.

|  |
| --- |
|  |

Africa RISING appreciates support from the American people delivered through the USAID Feed the Future initiative. We also thank farmers and local partners at all sites for their contributions to the program.

*©* 2020

 This publication is licensed for use under the Creative Commons Attribution 4.0 International Licence - <https://creativecommons.org/licenses/by/4.0>.

Unless otherwise noted, you are free to share (copy and redistribute the material in any medium or format), adapt (remix, transform, and build upon the material) for any purpose, even commercially, under the following conditions:

 ATTRIBUTION. The work must be attributed, but not in any way that suggests endorsement by the publisher or the author(s).

# Name of traveler(s)

• Inviolate Dominick

• Hassan Mndiga

• Gilbert Mushi

## Purpose of trip

Conduct Training of Trainers course (TOTs) on sustainable vegetable production for farmers group representatives, IDP technical staff and government extension agents working in the 2nd year Villages supported by Africa RISING and Kilimo Endelevu project in Karatu District.

The training served as basis to create better understanding of the importance of good quality seeds, Good Agronomic Practices (GAP) and their contribution to improved vegetable production per unit area for improved nutrition and income.

## Country visited

Tanzania

## Dates of trip

18-22 August 2020

## Budget source

Africa RISING-1000175-13

# List of people met during the trip and their details contacts

|  |  |  |
| --- | --- | --- |
| **Name** | **Title** | **Contact** |
| Fraterin Malamsha | DAICO - Karatu | 0755153385 |
| Wayda Peter | Karatu District Council – Focal person | Waydapeter12@gmail.com |
| Silvester Masanja | Project Officer -RECODA | smasanja@recoda.or.tz |
| Calib Massam | Field technical Officer - RECODA | cmassam@recoda.or.tz |
| Musa Chamwilambo | Extension staff- Endelevu- Karatu | + 255 756549677 |

# Important results/information gathered during the trip

* Total of 52 participants received the training out of which 19 males and 33 females (34 farmer trainers, 10 extension officers, 1 district representative, 5 IDP staff and 2 intern students attached to KE Project) participated in a three days course which was conducted at the Kilimo Endelevu head office in Karatu district.
* The training was officially opened by Karatu District Agriculture Irrigation and Cooperative officer (DAICO). He urged the participants to put the knowledge gained from the training into practice as well train other community members through practical demonstrations as models and make sure that the outcome from training contribute to improved nutrition, production and income of the small-scale farmers.
* Training Methodology and Procedures used focused on practical group work, discussions, Presentations, practical demonstrations facilitated by WorldVeg team (Hassan Mndiga and Inviolate Dominick).
* Participants were exposed to various improved vegetable production technologies. These include principles of vegetable production, use of good quality seeds, types of nurseries, preparation and management, organic farming; Integrated Pest Management (IPM) Practices; different types of natural pesticides, production and uses of African Traditional Vegetables.
* Importance of cultivation and including herbs and spices such as rosemary, Mint, coriander cinnamon and ginger in the diets was discussed.
* Four types of vegetables were introduced during the training namely chayote, Cassava leaves, Sweet potato leaves, and Chaya. These vegetables were selected for their nutritional content, health benefits, drought and disease resistance as well as their contributions to farm household income.
* Participants were trained (practical training) on how to prepare compost and liquid manure, preparation of soil medium and establishment of improved nursery of different types including trays, vegetable seed sowing, how to select and apply good quality mulch in vegetable fields and identification of commonly pest and diseases in vegetables, preparation of natural pesticides by use of easily available materials such as hot pepper, onions, animal dung, Targets minute-flowers or leaves, Neem- leaves and ashes.
* At the end of the training participants (Farmers and extension agents) developed their action plans and set way forward regarding `training other community members and establish the vegetable demo trials.

# Suggestions/activities for follow up

* Inviolate, Hassan in collaboration with District, ward and village extension agents Monitor and to follow up and assist farmers on establishment and management of demo plots by use of Integrated Management practices leaned from the training.
* Inviolate in Collaboration with IDP field technical team to provide backstopping in newly selected village and scaling up promotional nutrition messages activities and encouraging farmers to grow traditional vegetables to help improve food and nutritional security among poor households.

# Photos and other supporting documents





**Figure 1.** Top; Identification of pests and diseases (bottom) Preparation of liquid manure at farmers’ field in Karatu district. Photos: World Vegetable Center/ curtesy of Inviolate Dominick

### 



**Figure 2**. (Top) Preparation of nursery and natural pesticides (bottom) at Rhatia Kainam village. Photos: World Vegetable Center/ curtesy of Inviolate Dominick

### C:\Users\inviolaTE.DOMINICK\Desktop\photo story\TOT Spices - Copy.jpg



Figure 3. (Top) Discussion on nutritional benefits of Chayote, herbs and spices (bottom) participants showing up chayote fruits they have bought for startup garden at their own field back home. Photos: World Vegetable Center/ curtesy of Inviolate Dominick